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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,610	02/01/2007	Hiroaki Nagano	SON-3026/SOH	6525
	7590 09/15/200 IAN & GRAUER PL L	EXAMINER		
LION BUILDING 1233 20TH STREET N.W., SUITE 501			HSIEH, PING Y	
WASHINGTON			ART UNIT	PAPER NUMBER
			2618	
			MAIL DATE	DELIVERY MODE
			09/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/561,610	NAGANO ET AL.			
Office Action Summary	Examiner	Art Unit			
	PING Y. HSIEH	2618			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 21 Au	iaust 2008.				
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3) Since this application is in condition for allowar		secution as to the merits is			
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-3,5-14 and 16-18</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-3,5-7,9-14 and 16-18</u> is/are allowed.					
6)☐ Claim(s) is/are rejected.					
7) Claim(s) <u>8</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) The specification is objected to by the Examine	•				
10) The drawing(s) filed on 20 December 2005 is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
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Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: 1.⊠ Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Notice of Informal Patent Application					
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

2. Claim 8 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Response to Amendment

- 3. The amendment received on 8/21/08 has been entered.
- 4. In view of the amendment received on 8/21/08, the 35 U.S.C. 103 rejection of claims 1-3, 5-14 and 16-18 is withdrawn.

Allowable Subject Matter

5. The following is an examiner's statement of reasons for allowance: The present invention is directed to a wireless signal switching circuit for switching a plurality of transmitter and receiver signals having different frequencies. Each independent claim identifies the uniquely distinct features: regarding claim 1, the phase rotating means comprises the inductor having the other end connected to the common input and output terminal of the diplexer, a first capacitor connected between one end of the inductor and a reference potential node, a second capacitor connected between the other end of the inductor and the reference potential node, a first switch means having one end connected to the other end of the inductor, and a third capacitor connected between the

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other end of the first switch means and the reference potential node, and has the characteristics that a circuit defined by the inductor and the first to third capacitors imparts a phase rotation of 90 degrees to the phase of the signal of the frequency component supplied to the first signal route switching means when the first switch means is activated and that a circuit defined by the inductor and the first and second capacitors attenuates the harmonic component of the signal transmitted by the second communication system when the first switch means is de-activated. The closest two prior arts, AAPA (applicant's admitted prior art, fig. 1) discloses a first signal route switching means; and a second signal route switching means; Yrjölä et al. (U.S. PATENT NO. 5,521,561) disclose a phase shift PS as disclosed in fig. 6 and an inductor being connected between the one end connected to the antenna terminal, either singularly or in combination, fail to anticipate or render the above features obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PING Y. HSIEH whose telephone number is (571)270-3011. The examiner can normally be reached on Monday-Thursday (alternate Fridays) 8:00am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A. Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. Y. H./ Examiner, Art Unit 2618 /Nay A. Maung/ Supervisory Patent Examiner, Art Unit 2618